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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,621	12/30/2003	Byeong Ryeol Lee	040008-0307457	2865
909 75	590 11/30/2005		EXAM	INER
PILLSBURY	WINTHROP SHAW	JEFFERSON, QUOVAUNDA		
P.O. BOX 10500			ART UNIT	PAPER NUMBER
MCLEAN, VA	A 22102		2823	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/747,621	LEE, BYEONG RYEOL				
Office Action Summary	Examiner	Art Unit				
	Quovaunda Jefferson	2823				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 De	ecember 2003.					
<u> </u>	action is non-final.	-				
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closed in accordance with the practice under E						
Disposition of Claims						
•						
4) Claim(s) <u>1-3</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdray	wn from consideration.					
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-3</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·					
Priority under 35 U.S.C. § 119						
•	priority under 25 H S C \$ 110(c)) (d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. 9 119(a))-(u) or (i).				
a)⊠ All b)□ Some * c)□ None of:	- h h					
1. Certified copies of the priority document						
2. Certified copies of the priority document	• •					
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment/c)						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date- 30 December 2003 . 6) Other:						

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

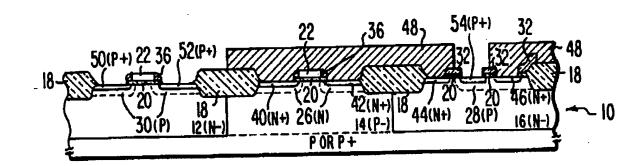
Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Hsu, US Patent 4,764,482. See figure below.



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Regarding claim 1, Hsu teaches a method of forming device isolation structures in an embedded semiconductor device comprising the steps of:

providing a semiconductor substrate 10 having a first area in which ions are implanted;

forming a first device isolation region 18 through partial oxidation in the first area; forming a first type well 12 with deep junction by diffusing the ions in the first area:

forming a second device isolation region with a trench in a second area of the semiconductor substrate (column 2, lines 51-53);

forming a first type well **40** with shallow junction in peripheral regions of the second device isolation structure and a region between the first device isolation structure and the second device isolation structure;

forming a second type well **30** with shallow junction in peripheral regions of the first device isolation structure and a region of the second device isolation structure;

and defining first and second type active regions **50&52** on the semiconductor substrate.

Regarding claim 2, Hsu teaches the method as defined by claim 1, wherein the diffusion of ions is simultaneously conducted when the partial oxidation is performed.

Regarding claim 3, Hsu teaches the method as defined by claim 1, wherein the first type well is an n-type well and the second type well is a p-type well.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quovaunda Jefferson whose telephone number is 571-

272-5051. The examiner can normally be reached on Monday through Friday, 8AM to

4:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

qvj

W. DAVID COLEMAN
PRIMARY EXAMINER

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